FSD208 PCB statistics report
Based on PCB018H

FSD208v01	2016-10-24 prel for PCB018D
FSD208v02	2018-09-30 Final release for PCB018H

Data Exported from: c:/jt/hw/pcb/PCB018-Netrus_PLd_Radio/Releases/PCB018H-Netrus_PLd_Radio.brd
with: C:/bin/EAGLE-7.7.0/ulp/statistic-brd.ulp Version 1.3.9
at: 2018-09-30 20:38
EAGLE Version 7.7.0 Copyright (c) 1988-2016 CadSoft

all Values in mm
max. Board length (Layer 20)
X = 32.29
Y = 198.25
Outline contour = 460.97

used layers 4

1 Top
2 Route2
15 Route15
16 Bottom

5178	Wire(s) incl. Arc(s)
61	Polygon(s)

585	SMD(s) top
1076	SMD(s) bottom
Err:510	
1661	SMD(s) total
140	PAD(s)

595	Via
19	Hole
Err:510	
754	Drills total

587	tCream
1082	bCream

Routing Info:

438	Signal(s)
1801	PAD/SMD total
Err:510	
1751	PAD/SMD on Signal

Packages used area:
~ 6368.33 mm² (0.637 dm²)

Err:510
34 Unroutet airwires ***
Err:510
578 Elements: 590 locked / -12 unlocked
12 Testpoints (TP)
12 Testpoints (TP)

LAYER

Nb.	Name	Used
1	Top	1
2	Route2	1
3	Route3	0
4	Route4	0
5	Route5	0
6	Route6	0
7	Route7	0
8	Route8	0
9	Route9	0
10	Route10	0
11	Route11	0
12	Route12	0
13	Route13	0
14	Route14	0
15	Route15	1
16	Bottom	1
17	Pads	1
18	Vias	1
19	Unrouted	0
20	Dimension	1
21	tPlace	1
22	bPlace	1
23	tOrigins	1
24	bOrigins	1
25	tNames	1
26	bNames	1
27	tValues	1
28	bValues	1
29	tStop	1
30	bStop	1
31	tCream	1
32	bCream	1
33	tFinish	0
34	bFinish	0
35	tGlue	0
36	bGlue	0
37	tTest	0
38	bTest	0
39	tKeepout	1
40	bKeepout	1
41	tRestrict	1
42	bRestrict	1
43	vRestrict	0
44	Drills	1

45	Holes	1
46	Milling	0
47	Measures	0
48	Document	0
49	Reference	1
50	dxf	1
51	tDocu	1
52	bDocu	1
56	wert	0
57	3D-top	0
58	3D-bottom	0
100	ValuesCommon	0
101	ValuesAlt1	0
102	ValuesAlt2	0
103	ValuesAlt3	0
104	ValuesAlt4	0
105	ValuesAlt5	0
106	ValuesAlt6	0
107	ValuesAlt7	0
108	ValuesAlt8	0
109	ValuesAlt9	0
120	CrossRefs	0
125	tNamesPanel	0
126	bNamesPanel	0
127	tValuesPanel	0
128	bValuesPanel	0
151	NormalDocHeader	0
152	MirrorDocHeader	0
200	200bmp	0
201	MechBottom	0
250	Descript	0
251	SMDround	0
251	SMDround	0

CLASS

#	Name	min. Width	Clearance	min. Drill	Used
0	default	0.1500	0.1500	0.3000	389
1	power	0.2500	0.2500	0.4000	11
2	power2	0.4000	0.3000	0.4000	3
3	relays	0.6000	0.6000	0.4000	20
4	Vin+12V	0.2000	0.4000	0.4000	1
5	sio	0.4000	0.4000	0.4000	14

WIDTH

WIRE	Q.
0.1500	2928
0.3000	356
0.2000	450
0.2500	271
0.6000	252
0.4000	590
0.5000	18

0.7000	37					
0.8000	118					
2.0000	30					
1.5000	17					
1.2000	34					
1.0000		53				
3.4000		9				
0.9000	4					
0.8000	1					
ARC	Q.					
0.5000		3				
0.8000		4				
0.4000		1				
0.2000	1					
2.0000	2					
* Wire width a	3					
POLY. width	Q.					
0.2000	4					
0.4000		48				
0.2500		2				
0.0100		4	Layer	Rank	Width	
0.8000		1	2	2	0,2	
0.6000		1	15	2	0,2	
0.3000		1	1	2	0,2	
Signal	GND		16	2	0,2	
POLY. Isol.	Q.		1	1	0,4	
0.0000		46	16	1	0,01	
0.4064		7	16	1	0,01	
0.3048		7	15	1	0,01	
0.6096		1	2	1	0,4	
Signal	SIO_PWR		2	1	0,4	
Polygon	SIO_PWR		15	1	0,4	

Type	Name	Layer	Rank	Width
Signal	GND	2	2	0.200
Signal	GND	15	2	0.200
Signal	GND	1	2	0.200
Signal	GND	16	2	0.200
Signal	GND	1	1	0.400
Signal	N$33	1	1	0.400
Signal	N$33	1	1	0.400
Signal	N$33	16	1	0.250
Signal	N$33	16	1	0.250
Signal	N$68	1	1	0.400
Signal	N$79	16	1	0.010
Signal	N$79	16	1	0.010
Signal	N$89	16	1	0.400
Signal	N$89	1	1	0.400
Signal	N$89	16	1	0.400
Signal	N$89	1	1	0.400
Signal	N$89	1	1	0.400
Signal	N$169	16	1	0.010
Signal	N$170	1	1	0.010

Signal	SIO1	1	1	0.400
Signal	SIO2	1	1	0.400
Signal	SIO3	1	1	0.400
Signal	SIO4	1	1	0.400
Signal	SIO5	1	1	0.400
Signal	SIO6	1	1	0.400
Signal	SIO7	1	1	0.400
Signal	SIO8	1	1	0.400
Signal	SIO9	1	1	0.400
Signal	SIO10	1	1	0.400
Signal	SIO11	1	1	0.400
Signal	SIO12	1	1	0.400
Signal	SIO13	16	1	0.400
Signal	SIO14	1	1	0.400
Signal	SIO_COM	16	1	0.800
Signal	SIO_COM	1	1	0.600
Signal	SIO_PWR	2	1	0.400
Signal	SIO_PWR	2	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	16	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	1	1	0.400
Signal	SIO_PWR	16	1	0.400
Signal	VIN-	16	1	0.400
Signal	VIN-	1	1	0.400
Signal	VIN-	16	1	0.400
Signal	VIN-	15	1	0.400
Signal	VIN-FILTER	1	1	0.400
Signal	VIN-FILTER	16	1	0.300
Signal	VIN_TO_SIO	16	1	0.400
Signal	VIN_TO_SIO	1	1	0.400

* Wire width *a*	2
2.5000	12
----------	12
CIRCLE (widtl	Q.
PAD bDiam	Q.
CIRCLE diam.	Q.
1.5000	4
----------	5
TEXT (w)	Q.
0.0762	1
0.0508	1

1.5500	16
TEXT (s)	Q.
0.8128	1
0.7000	1

----------	Q.

SMD x	SMD y	Roundn.	Q.
0.9000	0.9000	0,00 %	38
2.5400	2.0320	0,00 %	2
0.5000	0.5000	0,00 %	744
1.5240	1.5240	0,00 %	18
1.2700	1.2700	0,00 %	23
0.3000	1.2000	0,00 %	100
0.5500	0.2500	100,00 %	28
2.8000	2.8000	0,00 %	1
2.0320	1.7780	0,00 %	16
2.1000	1.4000	0,00 %	12
1.0160	1.0160	0,00 %	15
1.2000	1.2000	0,00 %	34
0.6000	0.6000	0,00 %	45
0.5000	0.4000	0,00 %	8
3.8100	2.0320	0,00 %	2
0.8000	2.2000	0,00 %	120
3.0480	2.5400	0,00 %	1
0.7000	0.4000	0,00 %	216
2.6000	1.0000	0,00 %	12
0.7874	0.7874	100,00 %	12
4.4000	1.4500	0,00 %	2
6.6000	2.8500	0,00 %	2
3.3000	3.5000	0,00 %	2
3.9500	1.4000	0,00 %	2
1.0000	0.7000	0,00 %	20
0.3810	1.2700	0,00 %	8
0.4200	1.7800	0,00 %	78
1.5240	0.6096	0,00 %	24
2.0000	5.3000	0,00 %	2
0.9000	0.7000	0,00 %	24
3.5000	2.0000	80,00 %	2
3.2000	2.0320	0,00 %	2
0.6000	0.6000	100,00 %	4
1.0000	2.0000	0,00 %	2
2.5000	0.9000	0,00 %	24
1.4000	1.2000	0,00 %	4
2.0320	2.5400	0,00 %	4
0.6000	0.5000	0,00 %	8
0.7000	495		

PAD tDiam	Q.
0.7000	9
1.5000	4
0.8048	5
1.8000	72
1.4000	8
1.6000	2

1.5500 16
2.5000 12
1.0000 12
0.1500 506
PAD bDiam Q.
0.7000 9
1.5000 4
0.8048 5
1.8000 72
1.4000 8
1.6000 2
1.5500 16
2.5000 12
1.0000 12
0.3000 9
PAD tRestring Q.
0.2000 9
0.3500 10
0.1524 5
0.2500 14
0.3250 64
0.4000 10
0.3750 16
0.6000 12
2.0000 1
PAD bRestring Q.
0.2000 9
0.3500 10
0.1524 5
0.2500 14
0.3250 64
0.4000 10
0.3750 16
0.6000 12
T03 0.5
PAD iDiam Q.
0.6048 9
1.2000 20
0.8048 17
1.5000 10
1.7250 64
1.0500 8
1.9500 12
T12 2.2
PAD iRestring Q.
0.1524 26
0.2000 20
0.2500 10
0.2875 64
0.1750 8
0.3250 12
74 5
VIA Outer-Dia Q.

0.7000	571
0.8000	24
b2b_and_sma	3
VIA Outer-Res	Q.
0.1500	595
SMPS	2
VIA Inner-Diar	Q.
0.7000	571
0.8000	24
resistors	249
VIA Inner-Res	Q.
0.1500	595
measureRef	4
VIA drill	Q.
0.4000	571
0.5000	24

VIA Stack	Q.
01-16	595
01-16-PAD	140
0402	299
PAD drill	Q.
0.3000	9
0.8000	20
0.5000	17
1.0000	10
1.1500	64
0.7000	8
1.3000	12
SOT323	15
----------	2
HOLE drill	Q.
2.0000	1
2.2000	6
1.4000	2
1.2000	4
0.8890	6
SC16-2.54RA	2
RACK	1
T01 0.3	2
T02 0.4	1
T03 0.5	1
T04 0.7	1
T05 0.8	1
T06 0.9	4
T07 1.0	1
T08 1.2	1
T09 1.3	1
T10 1.4	4
T11 2.0	2
T12 2.2	3
2920B	1
----------	8

LIBRARY	Q.
capacitors	95
microcontrolle	2
diodes	61
FET	19
74	5
computer	1
pins_jumpers	14
tables	2
b2b_and_sma	3
inductors	8

Q.	Top	Bot	
TeleRadio	1	1	1	0
opamp_comp	4	1	1	0
SMPS	2	6	5	1
LinPower	3	3	2	1
resistors	313	1	0	1
BJT	42	1	1	0
transient	1	1	1	0
measureRef	4	4	4	0
relays	4	1	1	0
buttons	1	15	2	13
trafo-signal	4	26	15	11
resonators	1	1	0	1
100n/-	0603	2	2	0

PACKAGE	Q.			
		5	4	1
603	15	4	4	0
1210	1	1	1	0
402	372	1	0	1
1206	9	1	0	1
805	10	2	2	0
LQFP100-14X	1	2	0	2
QFN-28-0.4	1	1	0	1
SMA	8	1	0	1
SOD80	6	1	0	1
SOT23	5	1	0	1
SOD-123W	17	5	1	4
SOT323	15	2	0	2
0603-LED-BI	2	4	0	4
EH8.0A-3.5-A	1	2	0	2
ES6.3A	1	1	1	0
SOIC-8	15	15	1	14
SOT223	1	14	0	14
SOT363-6	36	2	2	0
USB-MICRO-A	1	1	1	0
2X03-2MM-SM	2	1	0	1
SC16-2.54RA	2	1	0	1
A2004WVB-2	1	1	0	1
TC2030-MCP-	2	1	0	1
4.00X4.00X1.8	1	1	0	1
LEAD4.0-V5.	1	14	13	1
8.0X8.0X4.0	1	1	0	1
WE-LHMI-744	1	1	1	0
PS3D16_LPS	1	1	1	0

0603-LED		4	2	2	0
CC2520RX_N		1	1	1	0
SOT23-5		4	2	2	0
MSOP-8		1	1	1	0
TSSOP14		1	1	1	0
TSSOP16		4	1	0	1
SO8	2		1	0	1
SO8N		1	1	0	1
2920B	1		2	0	2
SC70		8	4	4	0
SIOV-S14-HO		1	1	1	0
2512		1	1	1	0
REFPT-SQ0.		4	1	0	1
HF41-1C		4	4	1	3
SKRKAEE010		1	2	2	0
PIN0,5		12	2	2	0
10X6.73		4	1	0	1
SMD3225		1	1	0	1
SMB		2	1	0	1
SOD523	4		4	0	4
10V,100mA	SC70		2	0	2
VALUE	PAC	Q.	Top	Bot	
100n,50V		603	1	0	1
10u,50V		1210	1	1	0
10u		603	6	5	1
1u0	0402		2	1	1
1u0,10V	0402		1	1	0
4u7	1206		1	0	1
22u,10V	0805		1	1	0
150n,50V,X7R	0805		1	1	0
100p/-	0402		4	4	0
820p	0402		1	1	0
1n0		402	3	3	0
100n	0402		27	15	12
-	0402		6	3	3
100n/-	0603		2	2	0
100n/-	0402		5	4	1
10n/-	0402		4	4	0
-1u0	0402		1	1	0
100n,50V	0603		1	0	1
1u0,50V	0805		3	1	2
2u2,10V	0603		1	0	1
10n	0402		4	4	0
22p	0402		2	0	2
10u,16V	1206		2	0	2
10u,50V	1206		1	0	1
100p	0402		14	1	13
GD32F105VC	LQFP100-14X14-0.5		1	0	1
GD32F130G8	QFN-28-0.4		1	0	1
BYS10-45	SMA		6	2	4
4x48	SOD80		2	0	2
4x48/-	SOD80		4	0	4
BAT54A	SOT23		2	0	2

PTVS18VS1U	SOD-123W	1	1	0
BAV99W	SOT323	15	1	14
PTVS58VS1U	SOD-123W	14	4	10
BICOLOR	0603-LED-BICOLOR-	2	2	0
470u,16V,low	EH8.0A-3.5-ANGLE9(	1	1	0
100u,50V,340	ES6.3A	1	1	0
FDN5630	SOT23	1	0	1
FDN5618	SOT23	1	0	1
AO4421	SOIC-8	1	0	1
BSP250	SOT223	1	0	1
NX7002AKS	SOT363-6	1	1	0
FDS89161LZ	SOIC-8	14	13	1
-	SOT363-6	1	0	1
USB5B-VERT	USB-MICRO-AB-DIP	1	1	0
H=2.8,gold-fla	2X03-2MM-SMD-MIR	2	2	0
218-516/218-5	SC16-2.54RASTERM	2	2	0
2X04-A2004W	A2004WVB-2X04P	1	1	0
-TC2030-SWD	TC2030-MCP-NL	2	2	0
10u	4.00X4.00X1.80	1	1	0
33u	LEAD4.0-V5.0A-HOR	1	1	0
100n,hf	402	1	0	1
-	8.0X8.0X4.0	1	0	1
33uH	WE-LHMI-744373683	1	0	1
22u	PS3D16_LPS3314	1	0	1
100n,250mA	603	2	0	2
GREEN/-	0603-LED	4	4	0
PCB023-CC25	CC2520RX_NO_RES	1	1	0
TLV170IDBVX	SOT23-5	1	0	1
LM5085	MSOP-8	1	1	0
MCP6L94	TSSOP14	1	0	1
74HC4051PW	TSSOP16	4	1	3
LM293/-	SO8	2	2	0
TPS79933DD	SOT23-5	2	2	0
LM337LMX	SO8N	1	0	1
G5125	SOT23-5	1	0	1
LP-SM110C	2920B	1	1	0
microSMD005	805	4	0	4
40V,100mA	SC70	2	0	2
BC846BPN	SOT363-6	18	2	16
BC846BPN/-	SOT363-6	2	0	2
10V,100mA/-	SC70	6	6	0
PUMD3	SOT363-6	14	1	13
390k	402	1	0	1
33k	0402	19	3	16
0R1	1206	1	1	0
22k	0402	6	3	3
2k2	0402	16	1	15
24k	0402	2	0	2
2k7	402	1	0	1
30VAC	SIOV-S14-HORIZONT	1	0	1
8k2	402	1	1	0
82R	402	15	1	14
4k7	402	8	4	4

10k		402	25	4	21
15k		402	1	1	0
1k0		402	14	2	12
100R		402	28	18	10
330R		402	3	2	1
560R		402	3	2	1
1M0		402	15	2	13
10R		402	1	1	0
100k		402	1	0	1
12k		402	4	0	4
4k3		402	2	1	1
4k3/-		402	2	2	0
ERJT08J100V		1206	2	2	0
4k7/-		402	6	6	0
390R/-		402	4	4	0
1k5/-		402	4	4	0
150R/-		402	4	4	0
10k/-		402	9	8	1
10R/-		402	2	0	2
470R		402	27	11	16
100k/-		402	1	0	1
2k0/-		402	1	0	1
6k8/-		402	1	0	1
47k		402	1	0	1
2k7		1206	1	1	0
0R1		603	1	0	1
10R		1206	1	0	1
22R		402	2	2	0
1k5		402	1	1	0
2k4		402	2	1	1
910R		402	1	1	0
0R2,2W		2512	1	1	0
1k1		402	2	0	2
-		805	1	1	0
20k		402	2	0	2
43k		402	2	0	2
0R		402	1	0	1
10k,NTC,B25-		603	1	1	0
1k65		402	14	1	13
16k		402	14	1	13
510R		402	14	1	13
39k		402	14	1	13
REFPT-SQ0.	REFPT-SQ0.6MM		4	2	2
5V,6A/-	HF41-1C		4	4	0
SKRKAEE010	SKRKAEE010		1	1	0
-	PIN0,5		12	12	0
WE76039001	10X6.73		4	1	3
12MHz,50ppm	SMD3225		1	0	1
SM6T39A	SMB		2	1	1
ESD5Z3.3T1G	SOD523		4	3	1
6V8	SMA		2	0	2
-PTVS28VS1U	SOD-123W		2	0	2
33V	SOT23		1	0	1

RECT x RECT y Q.
0 RECT (copper)

RECT Layer Q.

TEXT (s) Q.
0.8128 1
0.7000 1
2 TEXT size (copper)

TEXT (w) Q.
0.0762 1
0.0508 1
2 TEXT wire width (copper)

TEXT Q.
0.9000 1
0.8128 11
0.7000 30
0.8000 41
0.5080 5
1.2700 17
6 TEXT size (place)
3 TEXT wire width (place)

CIRCLE diam.Q.
0 CIRCLE (copper)

Rudimentarily signal name(s):
WIRE 'N$70' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'N$71' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'N$79' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'N$169' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'N$170' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'SAFE_DIG_IO2:N$1' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'SAFE_DIG_IO2:N$3' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'SAFE_DIG_IO2:N$4' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);
WIRE 'SAFE_DIG_IO2:N$9' (159.8000 67.2381) (158.8000 67.2381);DELETE (159.8000 67.2381);

End report